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5804399

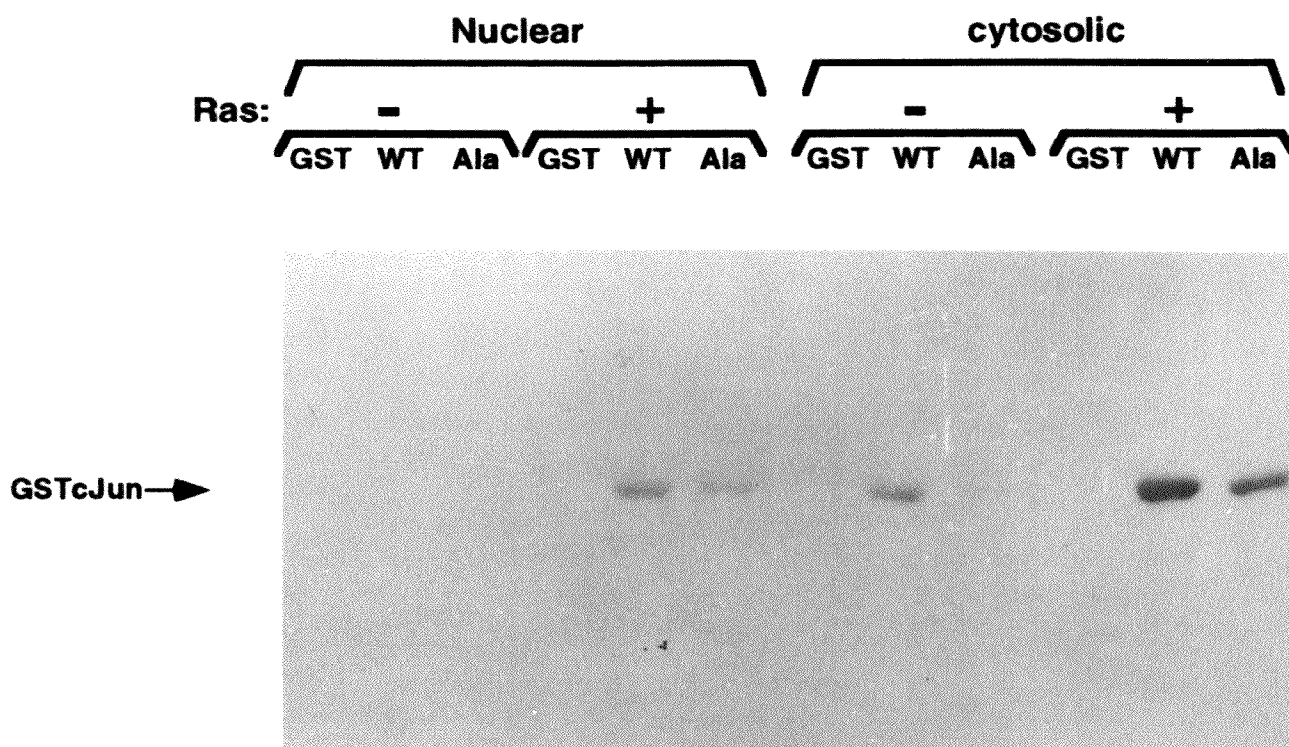


FIG. I

Treatment: - TPA TPA TPA TPA
 Substrate: WT WT WT GST Ala
 Time: 0 10 30 30

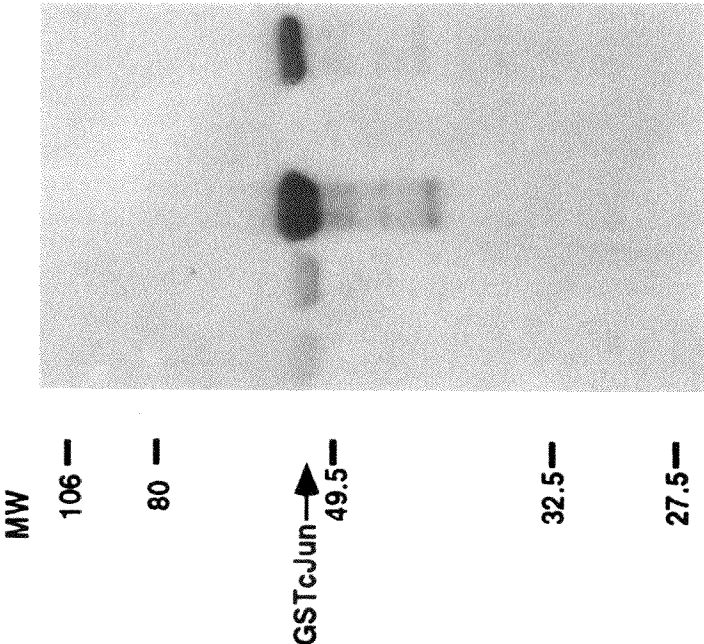


FIG.2B

Treatment: - UV UV UV UV UV
 Substrate: WT WT WT GST Ala WT WT
 Time: 0 5 30 30 30

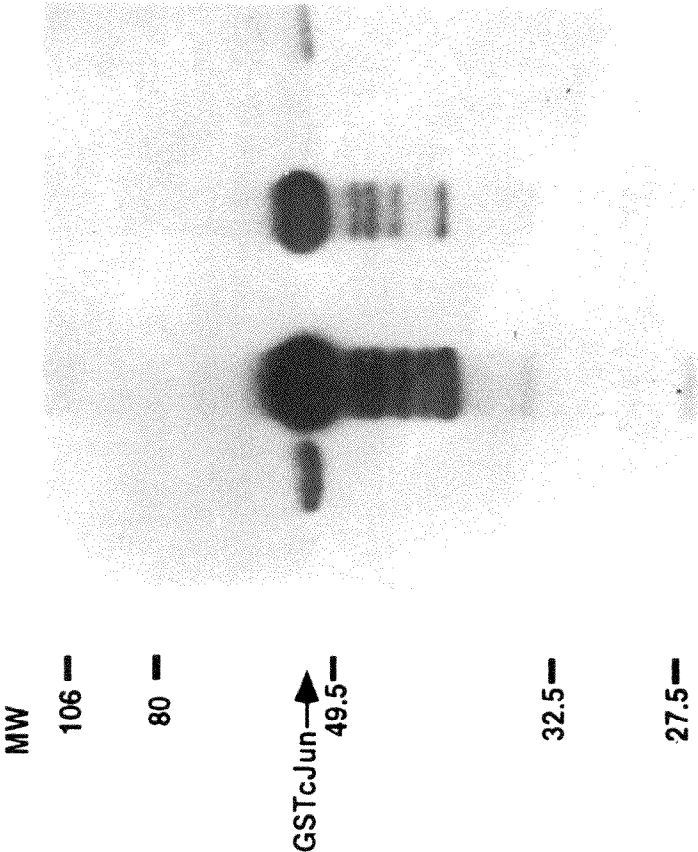


FIG.2A

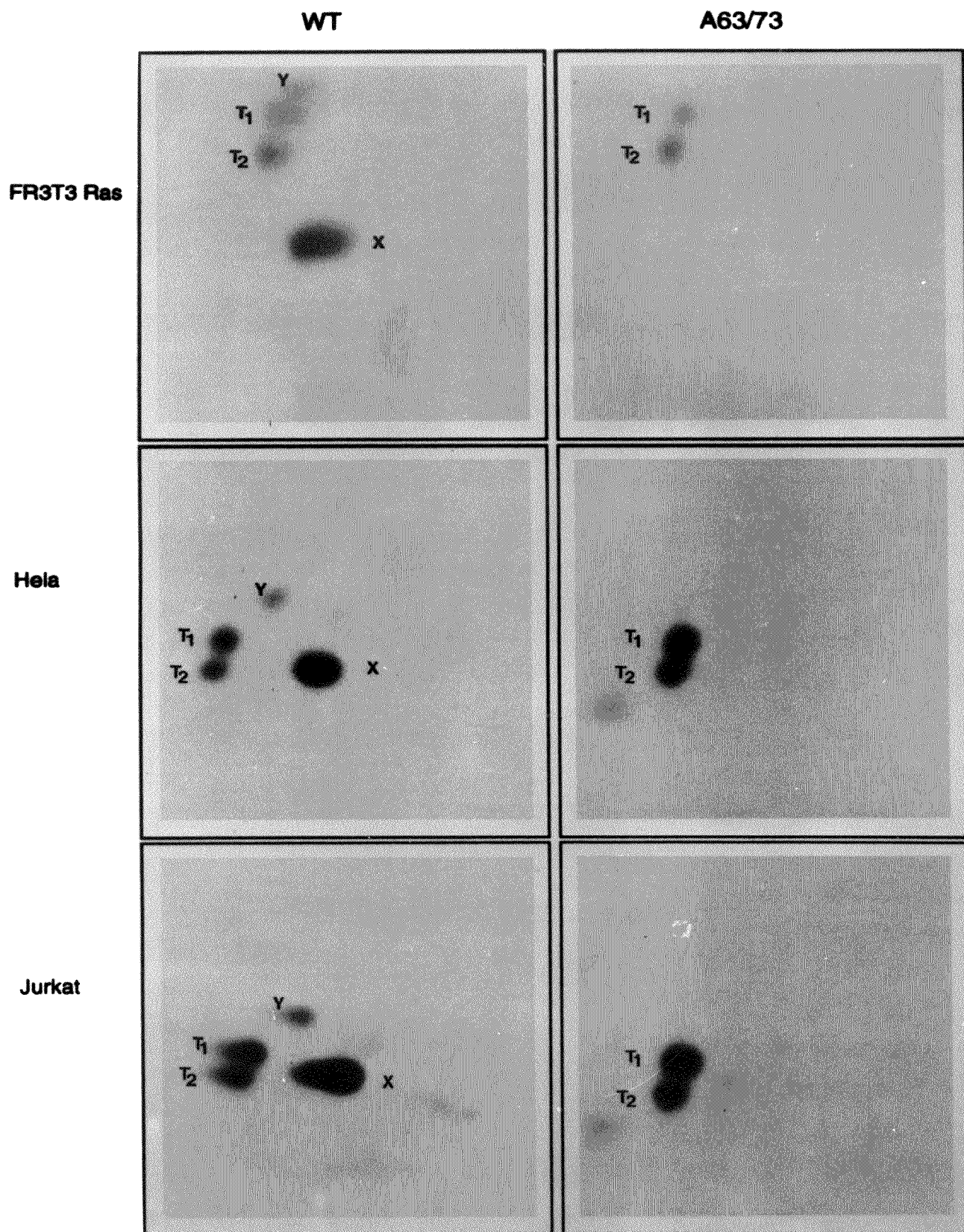
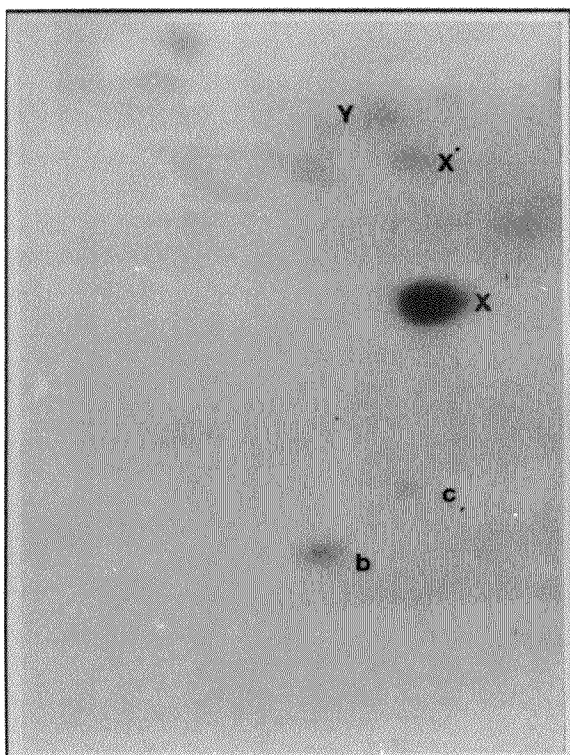


FIG. 3A

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In Vitro



In Vivo

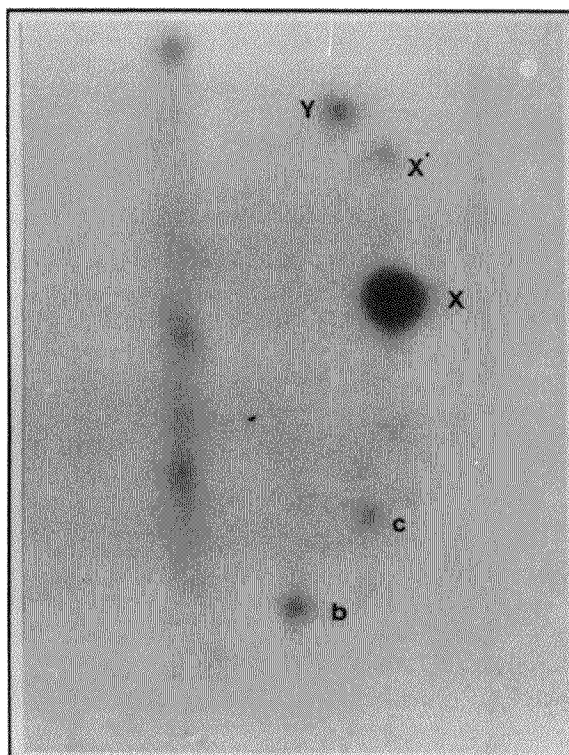
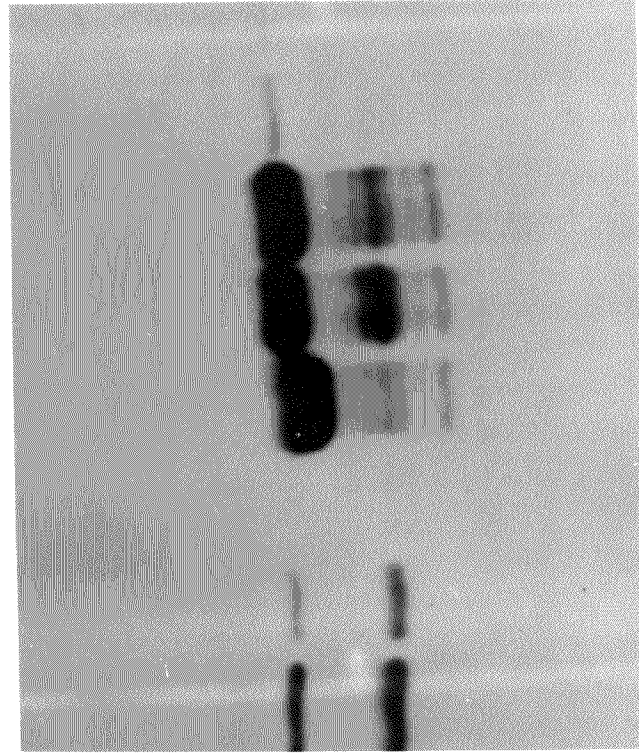


FIG. 3B

APPROVED	O.G. FIG.	
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Elutant: NaCl Urea GuHCl SDS
 Frac: 0.5 1 2 R 1 2 4 R 0.5 1 2 R 0.01 0.1 R



GSTcJun→

cJun→

FIG.4A

APPROVED	O.G. FIG.	
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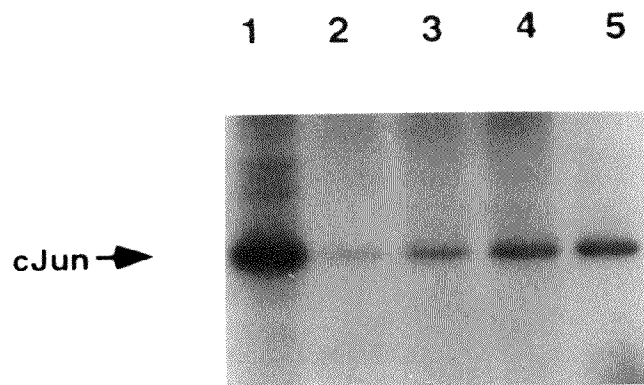


FIG. 4B

APPROVED	O.G. FIG.	
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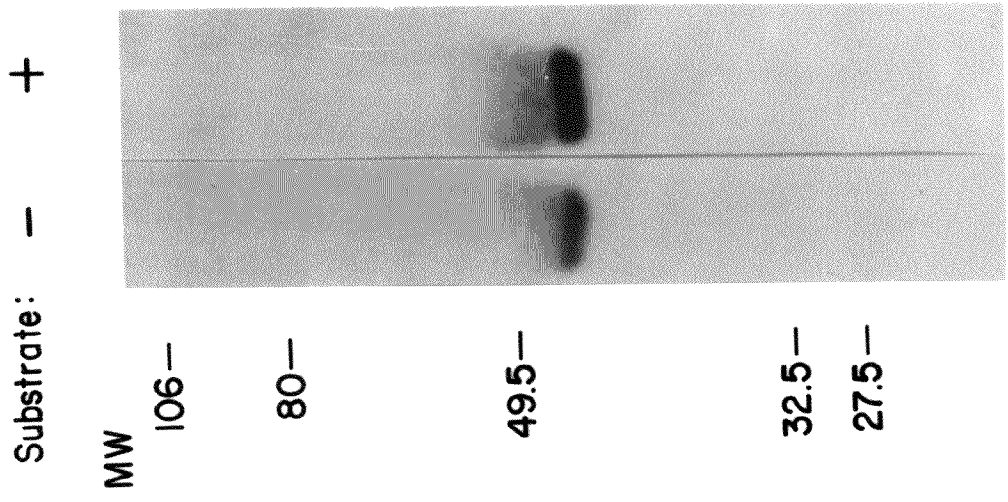


FIG. 5A

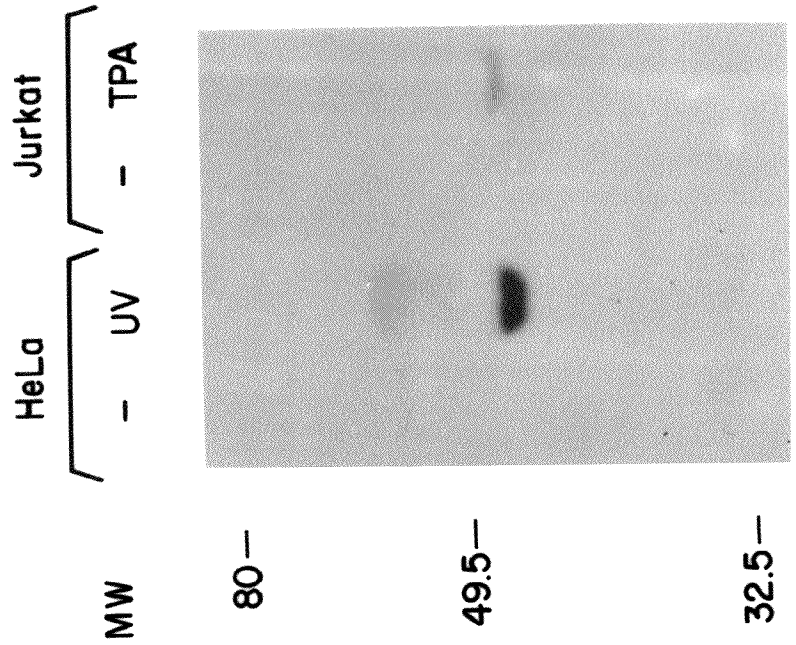


FIG. 5B

APPROVED	O.G. FIG.	
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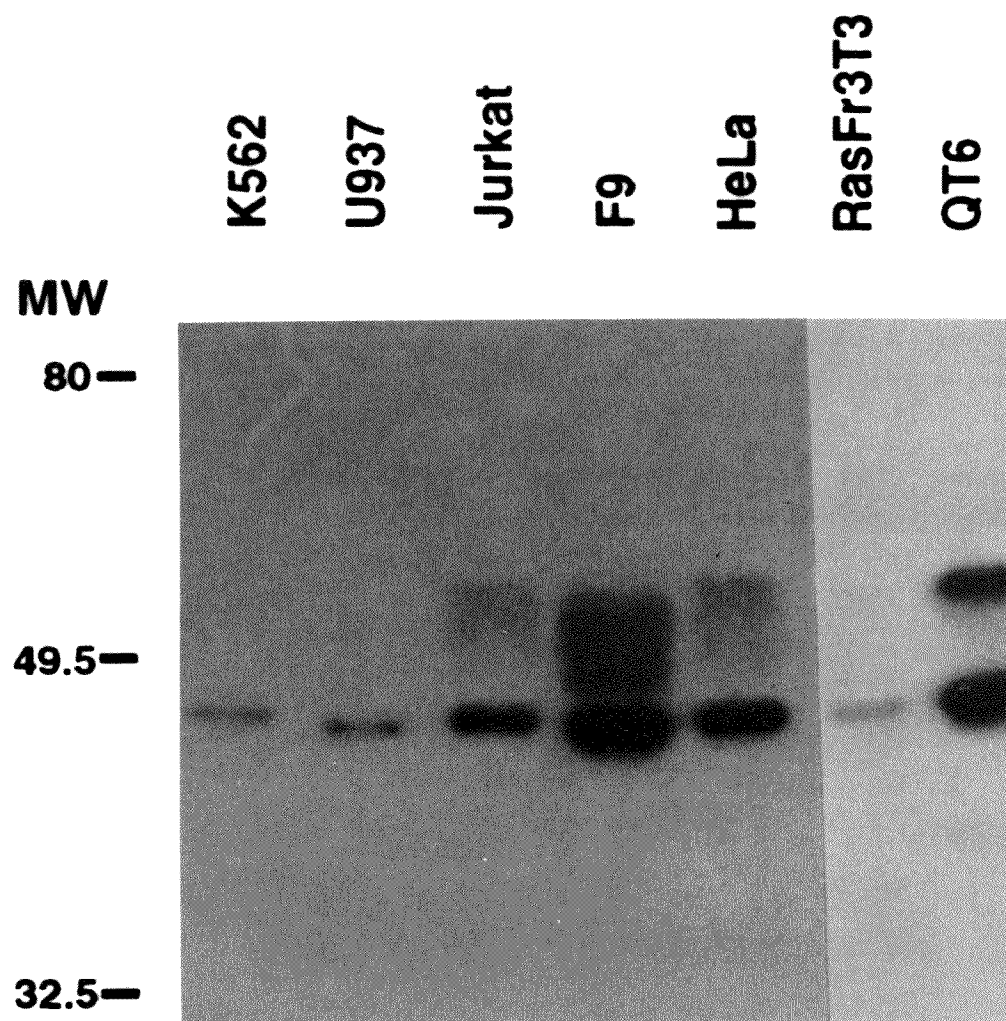
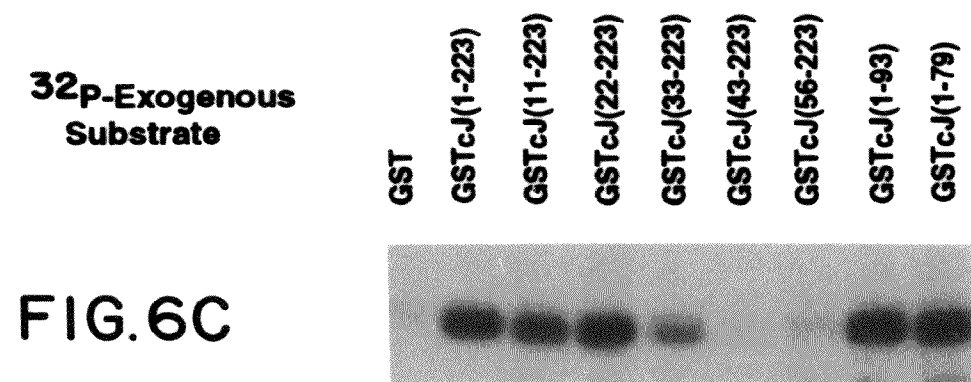
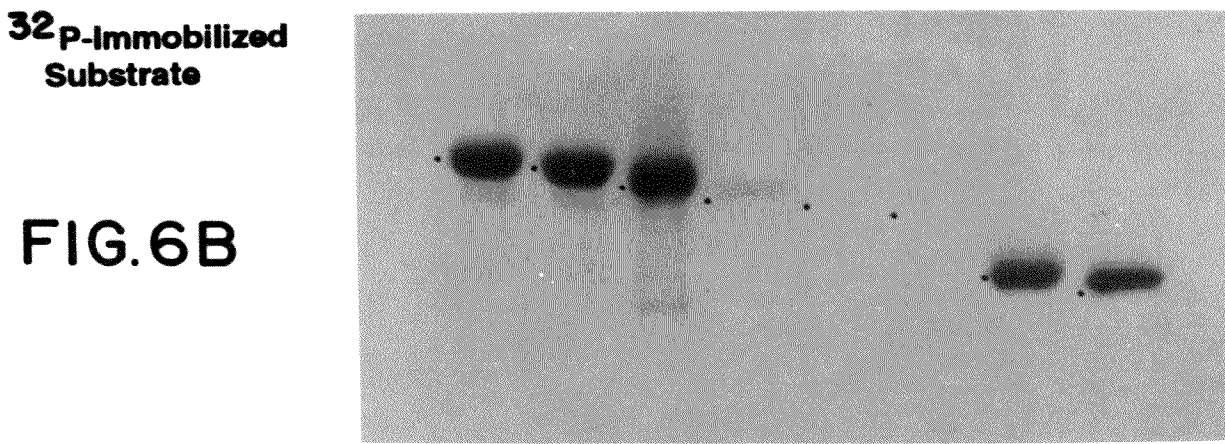
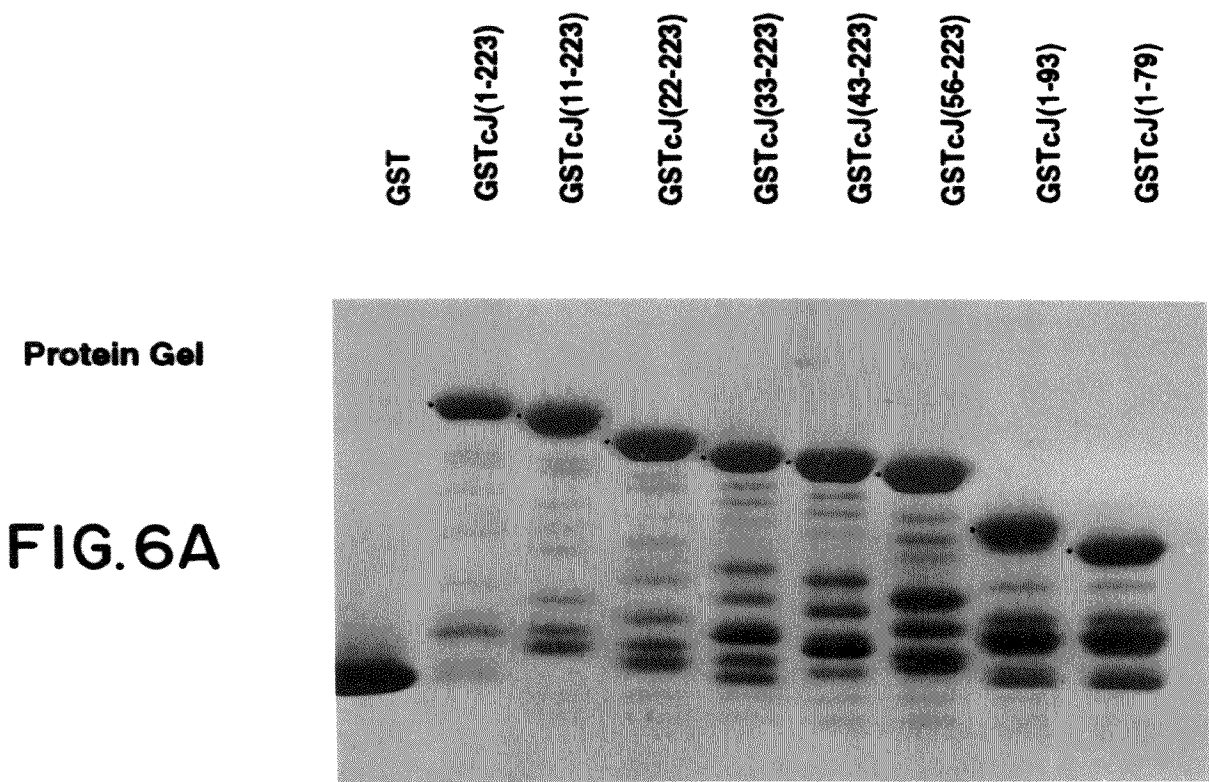


FIG. 5C



APPROVED	O.G. FIG.	
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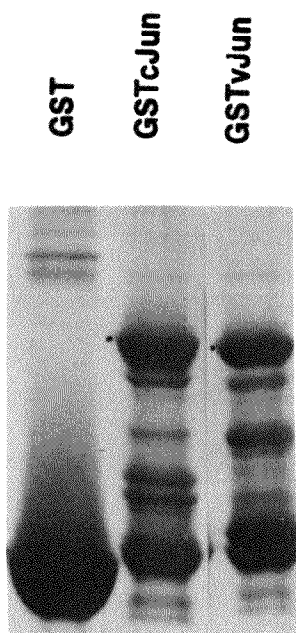


FIG. 7A

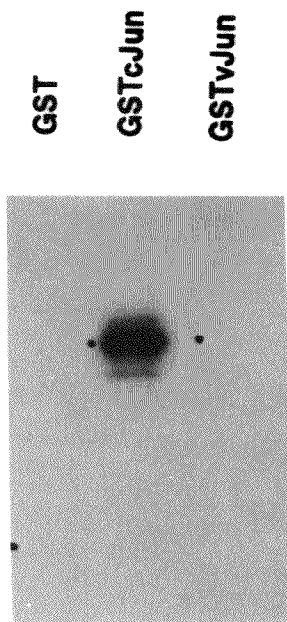


FIG. 7B



FIG. 7C

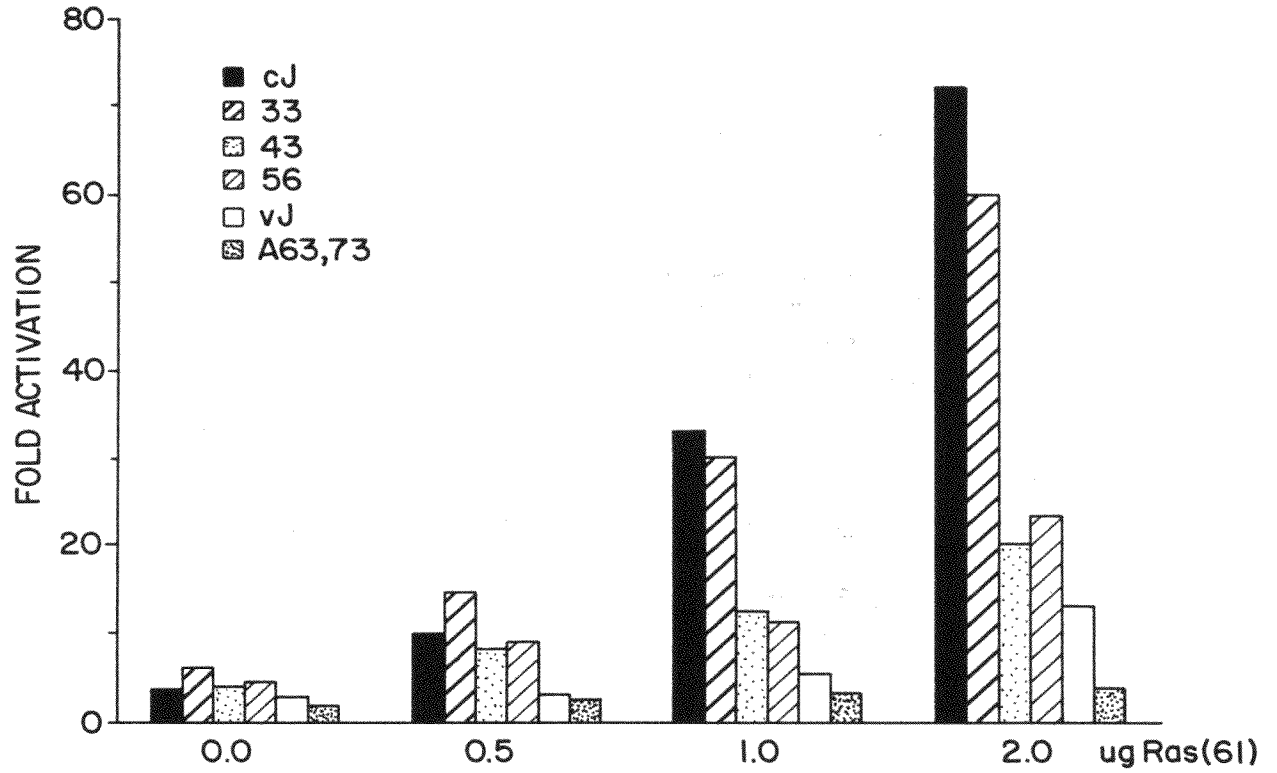


FIG. 8A

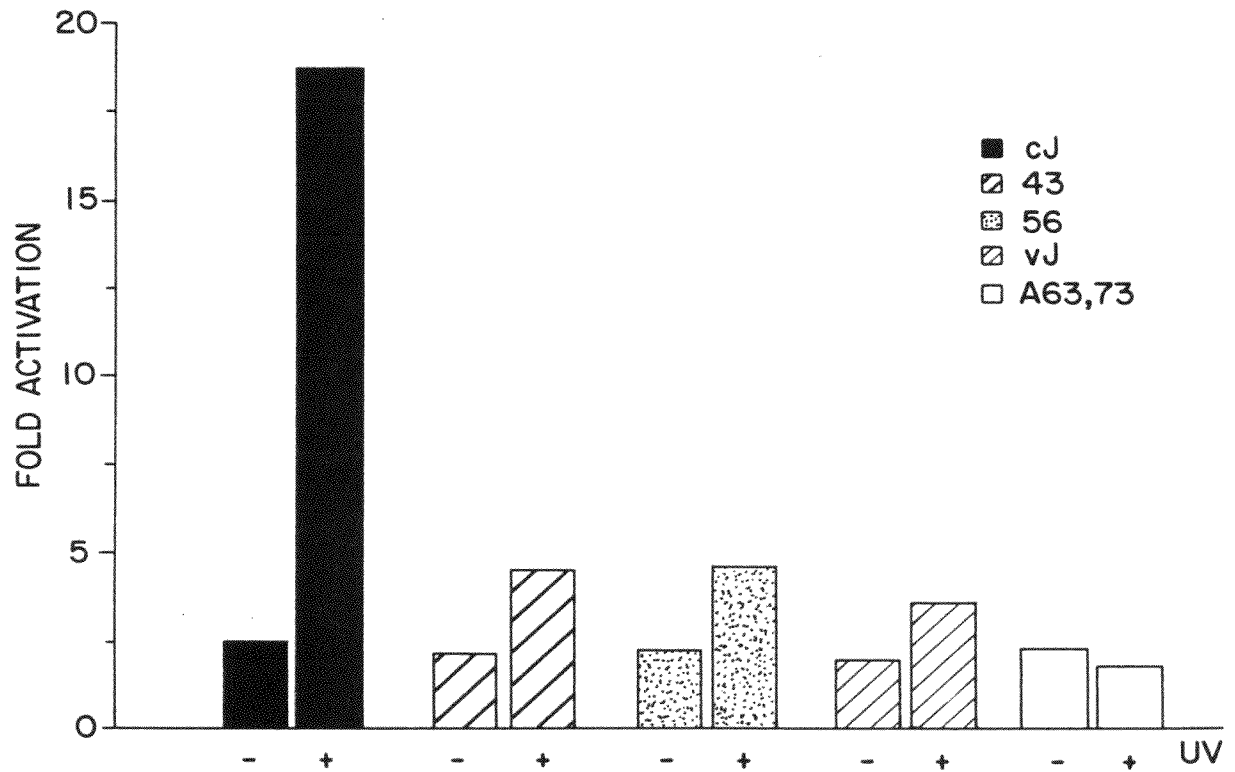


FIG. 8B

APPROVED	O.G. FIG.	
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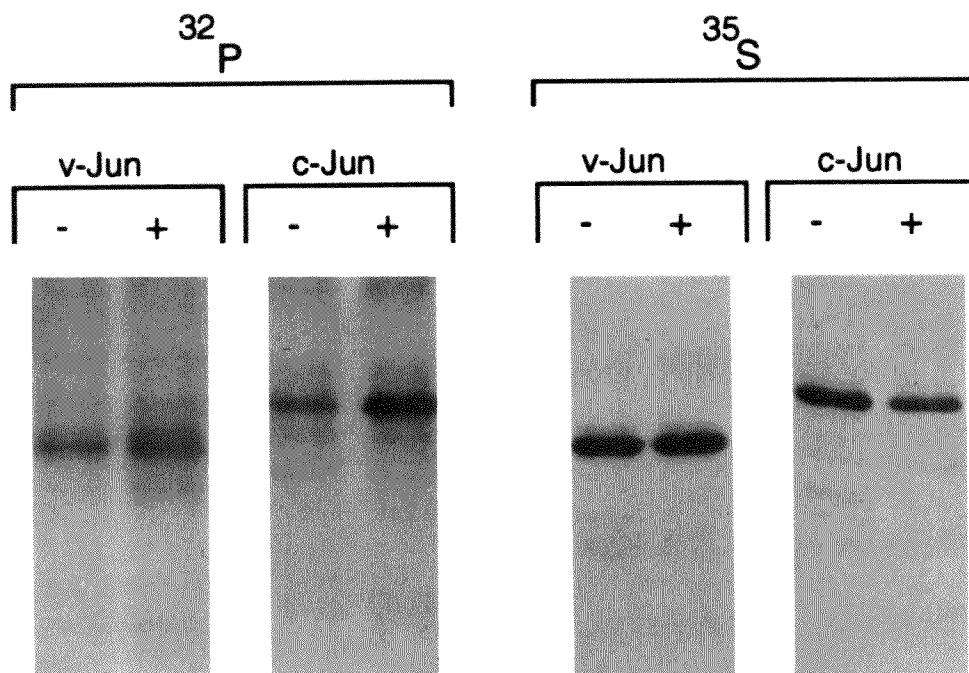


FIG.9A

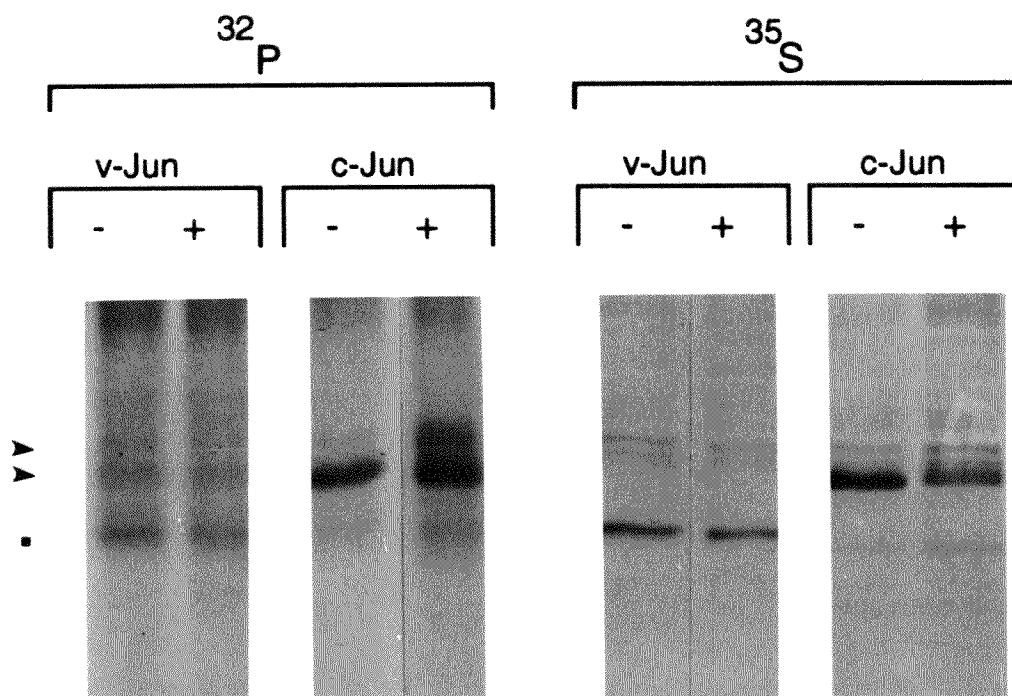


FIG.9B

APPROVED	O.G. FIG.	
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GAATTCCGGG GCGGCCAAGA CCCGCCGCCG GCGGGCCACT GCAGGGTCCG CACTGATCCG      60
CTCCGGCGGA GAGCCGCTGC TCTGGGAAGT CAGTTCCGCT GCGGACTCCG AGGAACCGCT      120
GGCACGAAG AGCCGTCAGT GAGTGACCGC GACTTTTCAA AGCCGGGTAG GCGCGCGGAG      180
TCGACAAGTA AGAGTGCGGG AGGCACTTA ATTAACCTG CGCTCCCTGG AGCAGCTGGT      240
GAGGAGGCG CACGGGACG ACAGCCAGCG GGTGCGTCCG CTCTTAGAGA AACTTTCCCT      300
GTCAAAGGCT CCGGGGGCG CCGGTGTCC CCGCTGCCA CAGCCCTGTT GCGGCCCCGA      360
AACTTGTCG CGCACGCCAA ACTAACCTCA CGTGAAGTGA CCGACTGTTC T ATG ACT      417
Met Thr
1

GCA AAG ATG GAA ACG ACC TTC TAT GAC GAT GCC CTC AAC GCC TCG TTC      465
Ala Lys Met Glu Thr Thr Phe Tyr Asp Asp Ala Leu Asn Ala Ser Phe
5 10 15

CTC CCC TCC GAG AGG GGA CCT TAT GGC TAC AGT AAC CCC AAG ATC CTG      513
Leu Pro Ser Glu Arg Gly Pro Tyr Gly Tyr Ser Asn Pro Lys Ile Leu
20 25 30

AAA CAG AGC ATG ACC CTG AAC CTG GCC GAC CCA GTG GGG AGC CTG AAG      561
Lys Gln Ser Met Thr Leu Asn Leu Ala Asp Pro Val Gly Ser Leu Lys
35 40 45 50

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FIG.10A

APPROVED	O.G. FIG.	
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CCG CAC CTC CGC GCC AAG AAC TCG GAC CTC CTC ACC TCG CCC GAC GTG 609
 Pro His Leu Arg Ala 55 Lys Asn Ser Asp 60 Leu Leu Thr Ser Pro Asp Val 65

 GGG CTG CTC AAG CTG GCG TCG CCC GAG CTG GAG CGC ATA ATC CAG 657
 Gly Leu Leu Lys 70 Leu Ala Ser Pro Glu 75 Leu Glu Arg Leu Ile Ile Gln 80

 TCC AGC AAC GGG CAC ATC ACC ACC ACC CCG ACC CCC ACC TCG TTC CTC 705
 Ser Ser Asn Gly 85 His Ile Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Phe Leu 95

 TGC CCC AAG AAC GTG ACA GAT GAG CAG CAG GAG GGG TTC GCC GAG GGC TTC 753
 Cys Pro Lys Asn Val 100 Thr Asp 105 Glu Gln Glu Glu Gly Phe Ala Glu Gly Phe 110

 GTG CGC GCC CTG GCC GAA CTG CAC AGC AGC CAG AAC ACG CTG CCC AGC GTC 801
 Val Arg Ala Leu Ala 115 Glu Thr 120 Leu His Ser Gln Asn Thr Leu Pro Ser Val 125 130

 ACG TCG GCG GCG CAG CCG GTC AAC AAC GCG GCA GGC GGC ATG GTG GCT CCC GCG 849
 Thr Ser Ala Ala Gln 135 Pro Val Asn Gly Ala Glu Gly Met Val Ala Pro Ala 140 145

 GTA GCC TCG GTG GCA GGG GGC AGC GGC AGC GGC TTC AGC GCC AGC 897
 Val Ala Ser 150 Val Ala Gly Gly Ser Gly Ser Gly Gly Phe Ser Ala Ser 155 160

FIG.10B

APPROVED	O.G. FIG.	
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CTG CAC AGC GAG CCG CCG GTC TAC GCA AAC CTC AGC AAC TTC AAC CCA Leu His Ser Glu Pro Pro Val Tyr Ala Asn Leu Ser Asn Phe Asn Pro 165 170 175	945
GGC GCG CTG AGC AGC GGC GGC GGC GGC TCC TAC GGC GCG GCC GGC Gly Ala Leu Ser Ser Gly Gly Ala Pro Ser Tyr Gly Ala Ala Gly 180 185 190	993
CTG GCC TTT CCC GCG CAA CCC CAG CAG CAG CCG CCG CAC CAC CAC Leu Ala Phe Pro Ala Gln Pro Gln Gln Gln Gln Pro Pro His His 195 200 205 210	1041
CTG CCC CAG ATG CCC GTG CAG CAG CAG CCG CTG CAG GCC CTG AAG Leu Pro Gln Gln Met Pro Val Gln His Pro Arg Leu Gln Ala Leu Lys 215 220 225	1089
GAG GAG CCT CAG ATA GTG CCC GAG ATG CCC GGC GAG ACA CCG CCC CTG Glu Glu Pro Gln Ile Val Pro Glu Met Pro Gly Glu Thr Pro Pro Leu 230 235 240	1137
TCC CCC ATC GAC ATG GAG TCC CAG GAG CCG ATC AAG CCG GAG AGG AAG Ser Pro Ile Asp Met Glu Ser Gln Glu Arg Ile Lys Ala Glu Arg Lys 245 250 255	1185
CGC ATG AGG AAC CCG ATC GCT GCC TCG AAG TGC CGA AAA AGG AAG CTG Arg Met Arg Asn Arg Ile Ala Ala Ser Lys Cys Arg Lys Arg Lys Leu 260 265 270	1233

FIG.10C

APPROVED	O.G. FIG.	
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GAG AGA ATC GCC CGG CTG GAG GAA AAA GTG AAA ACC TTG AAA GCT CAG Glu Arg Ile Ala Arg Leu Glu Glu Lys Val Lys Thr Leu Lys Ala Gln 275 280 285 290	1281
AAC TCG GAG CTG GCG TCG ACG GCC AAC ATG CTC AGG GAA CAG GTC GCA Asn Ser Glu Leu Ala Ser Thr Ala Asn Met Leu Arg Glu Gln Val Ala 295 300 305	1329
CAG CTT AAA CAC AAA GTC ATG AAC CAC GTT AAC AGT GGG TGC CAA CTC Gln Leu Lys His Lys Val Met Asn His Val Asn Ser Gly Cys Gln Leu 310 315 320	1377
ATC CTA ACG CAG CAG TTG CAA ACA TTT TGAAGAGAGA CCGTCGGGGG Ile Leu Thr Gln Gln Leu Thr Phe 325 330	1424
CTGAGGGGCA ACGAAGAAA AAAATAACAC AGAGAGACAG ACTTGAGAAC TTGACAAGTT	1484
CCGACGGAGA GAAAAAGAA GTGTCCGAGA ACTAAAGCCA AGGTATCCA AGTTGGACTG	1544
GGTTCCGTCT GACGGCGCCC CCAGTGTGCA CGAGTGGGAA CCACCTGGTC GCGCCCTCCC	1604
TTGGCGTCGA GCCAGGGAGC GCGCGCCTGG GGGCTGCCCC GCTTTGGGGA CCGGCTGTCC	1664
CCGCGCGAAC GGAACGTTGG ACTTTCGTTA ACATTGACCA AGAACTGCAT GGACCTAACA	1724

FIG.10D

APPROVED	O.G. FIG.	
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TTCGATCTCA	TTCAGTATTA	AAGGGGGCAG	GGGAGGGGG	TTACAAACTG	CAATAGAGAC	1784
TGTAGATTGC	TTCTGTAGTA	CTCCTTAAGA	ACACAAAGCG	GGGGAGGGT	TGGGAGCGG	1844
CGGCAGGAGG	GAGGTTTGTG	AGAGCGAGGC	TGAGCCTACA	GATGAACTCT	TTCTGGCCTG	1904
CTTTCGTTAA	CTGTGTATGT	ACATATATAT	ATTTTTTAAT	TTGATTAAAG	CTGATTACTG	1964
TCAATAAACA	GCTTCATGCC	TTTGTAAGTT	ATTTC TTGTT	TGTTTGTTG	GGATCCTGCC	2024
CAGTGTGTT	TGTAAATAAG	AGATTTCGAG	CACTCTGAGT	TTACCATTTG	TAATAAAGTA	2084
TATAATTTT	TT					2096

FIG.10E

APPROVED	O.G. FIG.	
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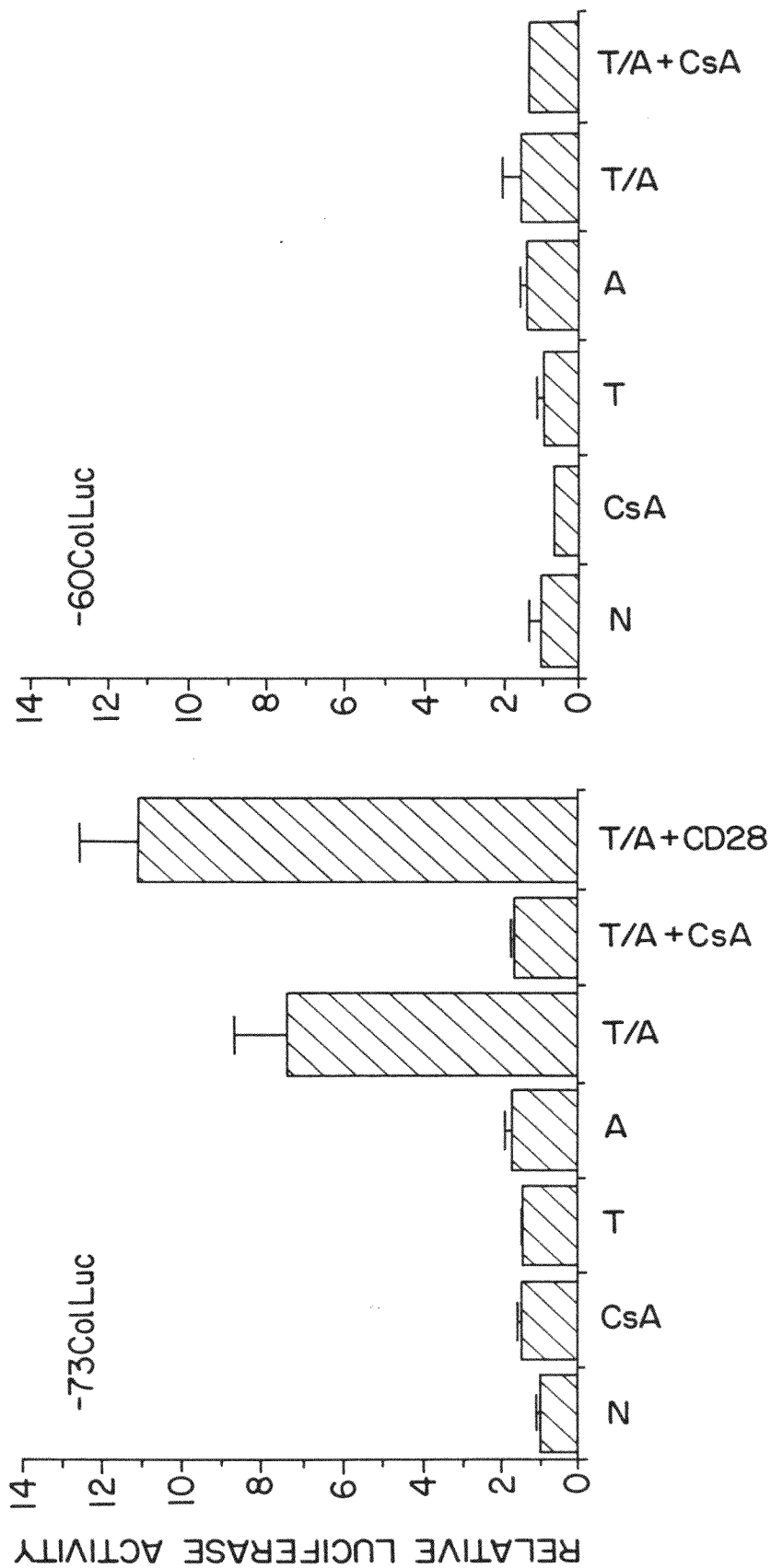


FIG. IIC

FIG.12A

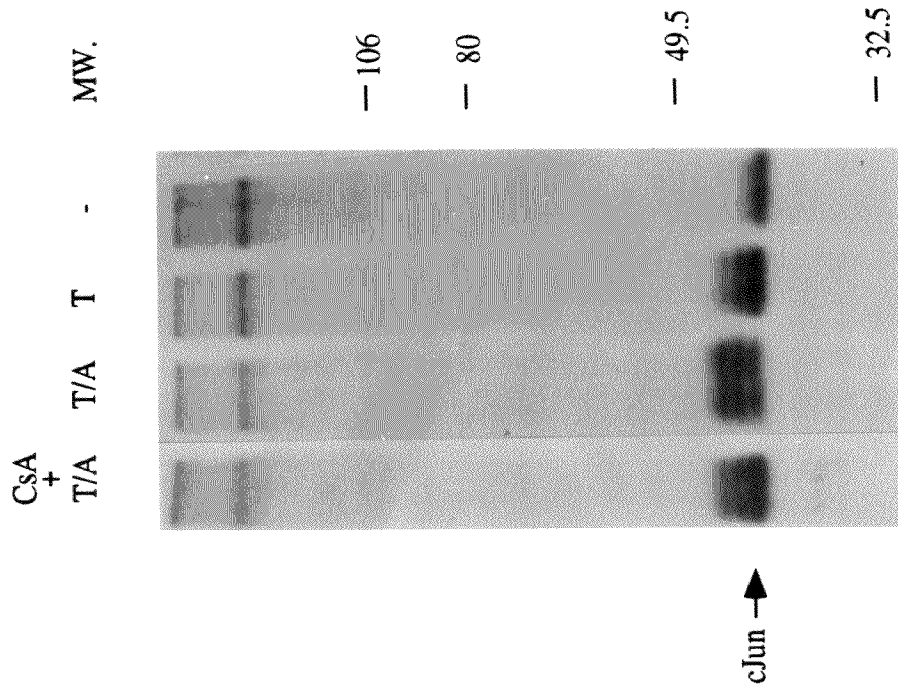
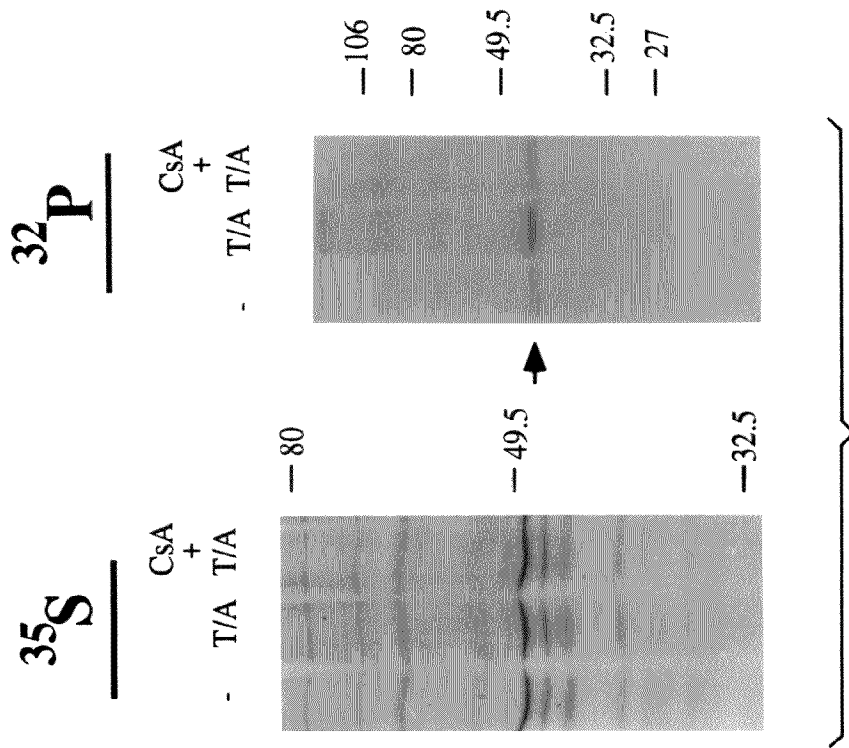


FIG.12B



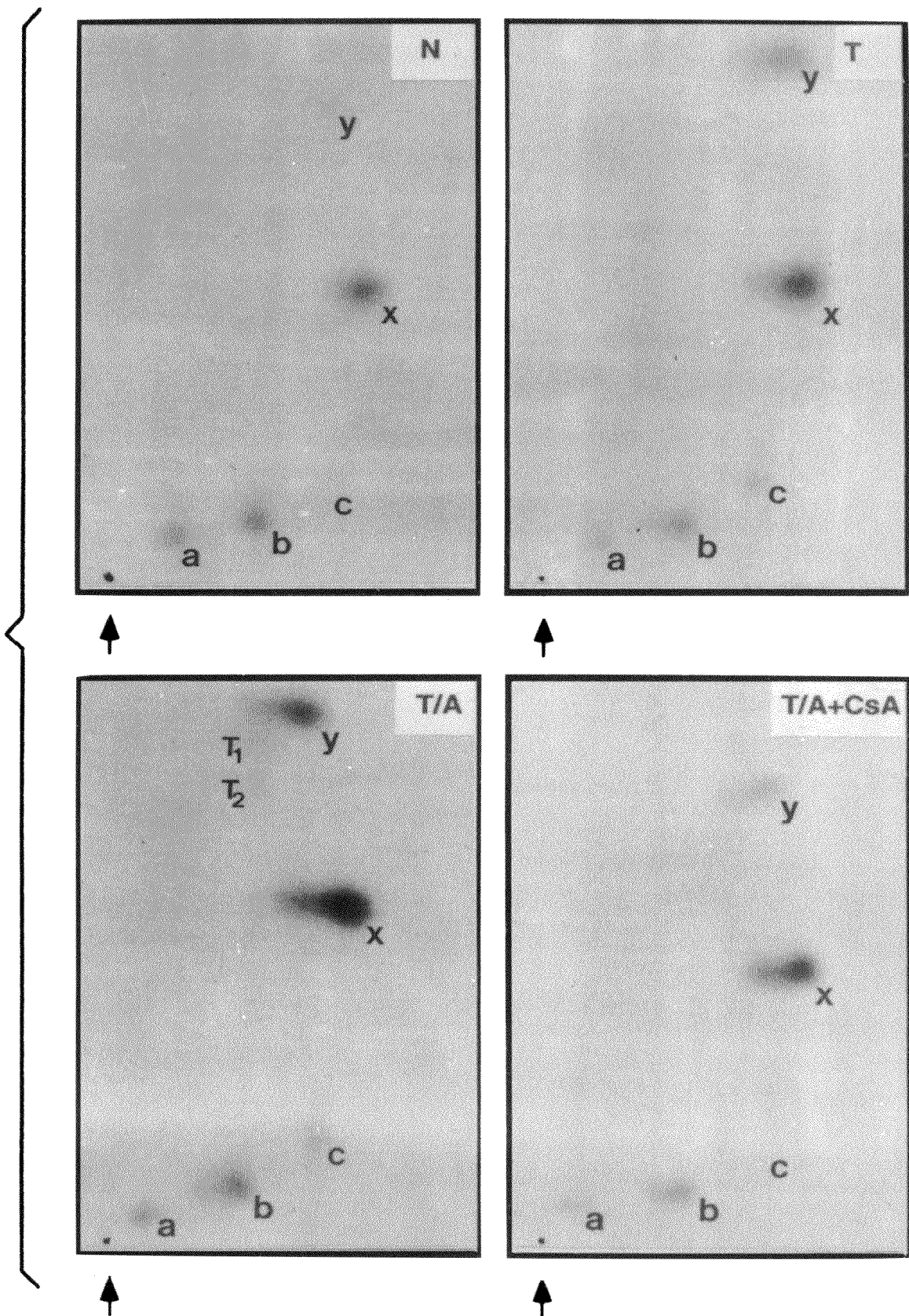


FIG.12C

APPROVED	O.G. FIG.	
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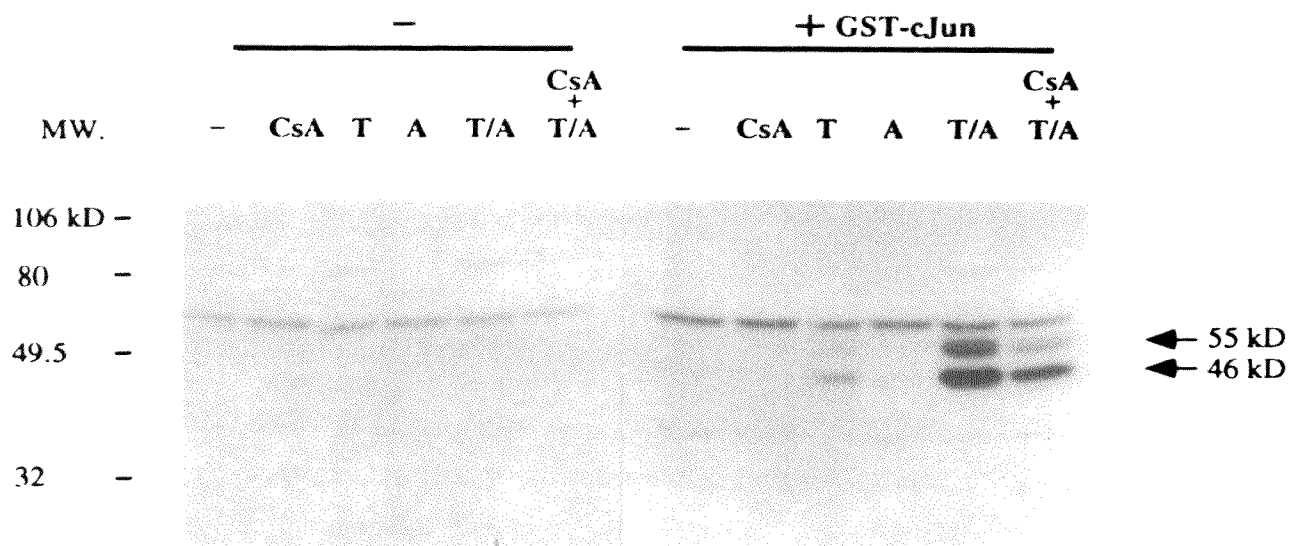


FIG.13A

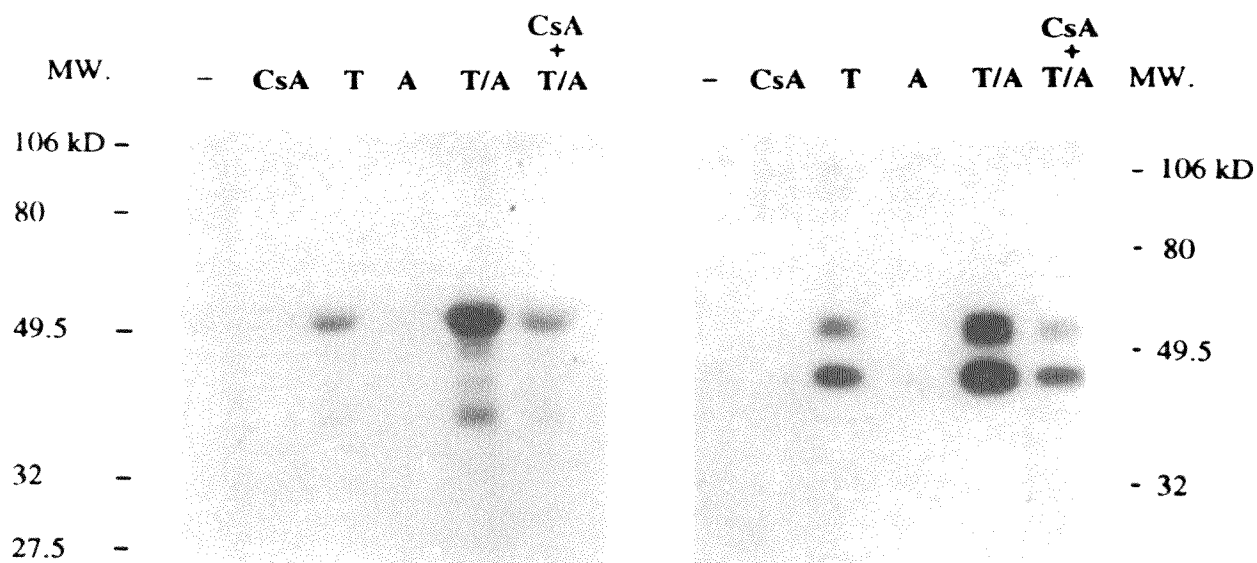


FIG.13B

FIG.13C

APPROVED	O.G. FIG.	
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FIG.15A

Erk-1 Mut →

- CsA T A T/A T/A

MW.

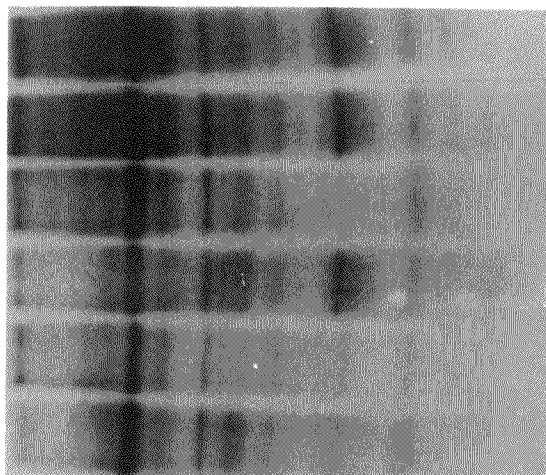


FIG.15C

Erk-1 Mut →

- T A T/A T/A

MW.

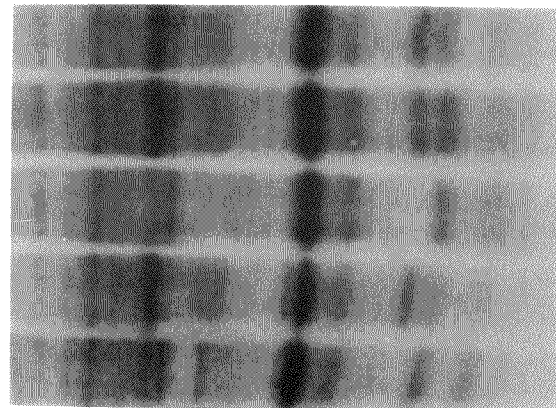


FIG.15B

MBP →

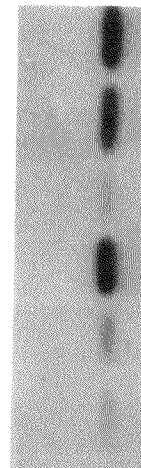


FIG.15D

MBP →



APPROVED	C.G. FIG	
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FIG.16A

CsA	+	-	-	-	-
anti-CD28	+	+	-	+	-
anti-CD3	+	+	+	-	-

JNK(55) →
JNK(46) →

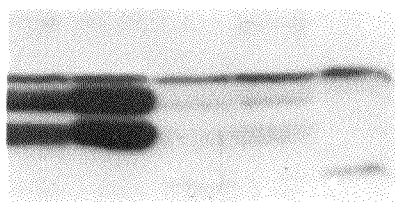
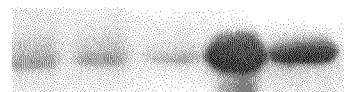


FIG.16B

CsA	-	-	-	-	+
anti-CD28	-	-	+	+	+
anti-CD3	-	+	-	+	+

GSTcJun →



MBP →



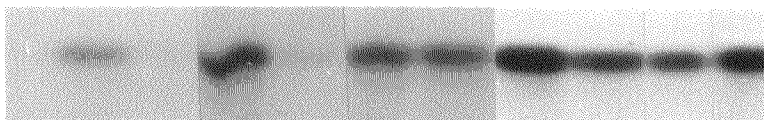
FIG.16C

	1	2	3	4	5	6	7	8	9	10	11
CsA	-	-	-	-	-	-	+	-	+	-	+
anti-CD28	-	-	-	-	+	-	-	-	-	+	+
anti-CD3	-	-	-	+	-	-	-	+	+	-	-
A	-	-	+	-	-	+	+	-	-	-	-
T	-	+	-	-	-	+	+	+	+	+	+

GST-cJun →



MBP →



APPROVED	O.G. FIG.	
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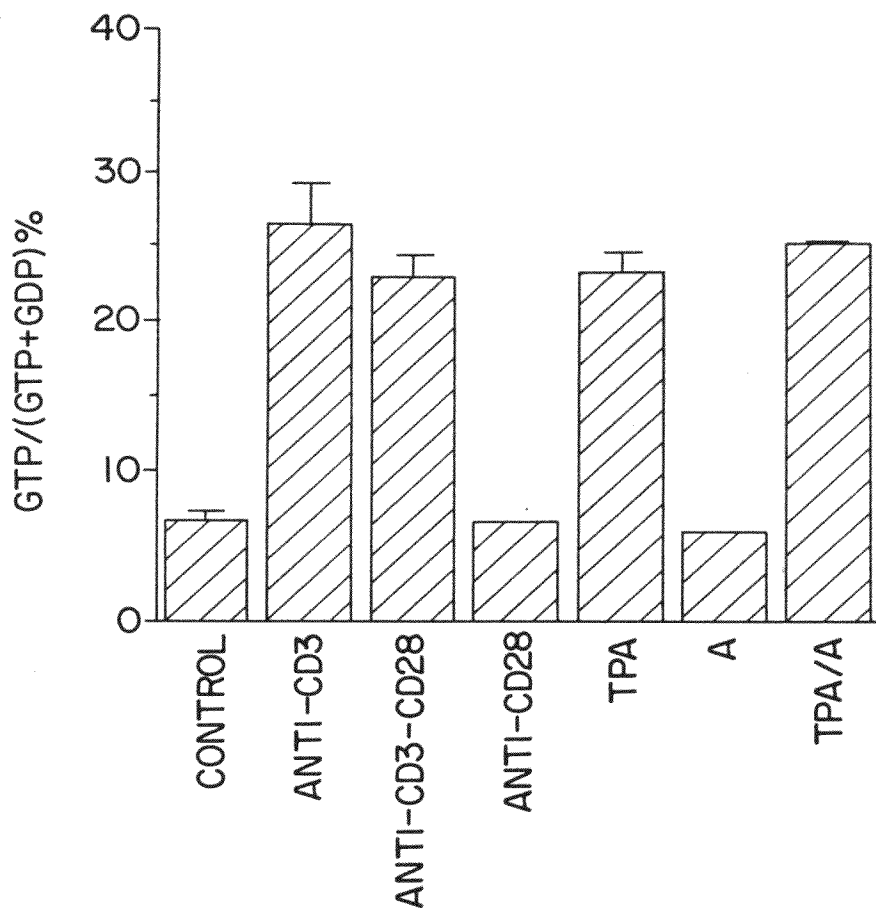


FIG. 17A

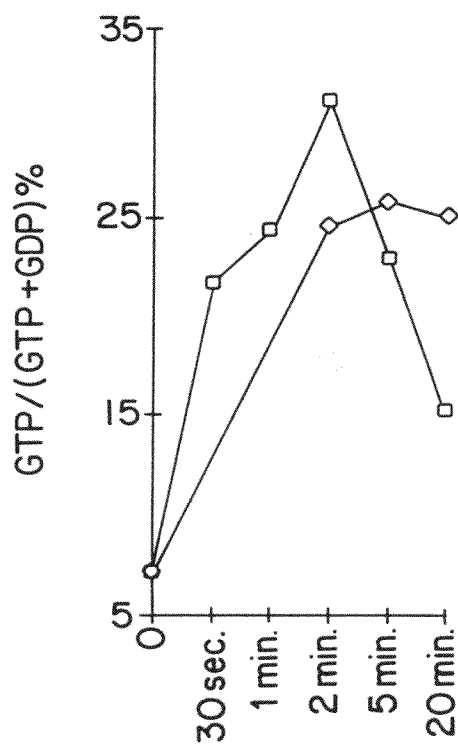


FIG. 17B